

REC'D 27 JUN 2005

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification Preliminary E	on of Transmittal of International xamination Report (Form PCT/IPEA/416)
PU4927WO	International filing date (day/mo	nth/year)	Priority date (day/month/year)
International application No.	į		18 December 2002 (18.12.2002)
PCT/US03/38483 International Patent Classification (IPC)	04 December 2003 (04.12.2003)	TO DOMESTIC TO
International Patent Classification (IPC)	or manoran chassification (22)	14 200	22 203 12 203 15 203.21, 203.22
IPC(7): A61M 11/00, 15/00, 16/00 and	US Cl.: 128/200.11, 200.12, 200	.13, 200.14, 200	5.23, 203.12, 203.13,
Applicant			
GLAXO GROUP LIMITED			
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.			
	f a total of $\underline{5}$ sheets, including		
which have been am before this Authorit	ended and are the basis for un y (see Rule 70.16 and Section (e., sheets of the s report and/or 507 of the Adm	description, claims and/or drawings sheets containing rectifications made ninistrative Instructions under the PCT).
These annexes consist of			
3. This report contains indi	cations relating to the following	g items:	
I Basis of the re	port		
II Priority			and the continuation that
III Non-establish	III Non-establishment of report with regard to novelty, inventive step and industrial applicability		
IV Lack of unity	IV Lack of unity of invention		
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain docur			
	ts in the international application		
VIII Certain obser	vations on the international app	plication	
			(this month
Date of submission of the demand	D	ate of completi	on of this report
11 June 2004 (11.06.2004)	27	April 2005 (27.	04.2005)
Name and mailing address of the IPE	A/US A	uthorized officer	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	5	eena Mitchell	Sian Smith
P.O. Box 1450 Alexandria, Virginia 223 13-14	į.	elephone No. (5	<i>- - - - - - - - - -</i>
Facsimile No. (703) 305-3230			
Form PCT/IPEA/409 (cover sheet)(Jul	y 1998)		

INTERNATIONAL.	PRRLIMINARY	EXAMINATION REPORT
THICKING LICINAL	I LOTS THAT I AVE TO T	DAMINI WITTON TOOL OLD

International application No.	
DCT/11003/39/93	

I.	Basis of the report
1.	With regard to the elements of the international application:*
	the international application as originally filed.
	the description:
	pages 1-13 as originally filed
	pages NONE filed with the demand
	pages NONE , filed with the letter of
	the claims:
	pages 14-18, as originally filed _
	pages NONE , as amended (together with any statement) under Article 19
	pages NONE , filed with the demand
	pages NONE, filed with the letter of
	the drawings:
	pages 1-17, as originally filed
	pages NONE , filed with the demand
	pages NONE , filed with the letter of
	the sequence listing part of the description:
	pages NONE, as originally filed
	pages NONE , filed with the demand
	pages NONE , filed with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the
	language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.	The amendments have resulted in the cancellation of:
	the description, pages NONE
	the claims, Nos. NONE
	the drawings, sheets/fig NONE
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
this	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in s report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY I	EXAMINATION REPORT
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International application No. PCT/US03/38483

V. Reasoned statement under Rule 66.2(a)(ii) citations and explanations supporting such			inventive step or indu	strial applicabili	ty;
1. STATEMENT					
Novelty (N)		14-26, 29-34			YES
	Clauns	1-4,6-13, 27,	28		
Inventive Step (IS)	Claims Claims				YES NO
7 1 4 1 A 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					YES
Industrial Applicability (IA)					NO
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet					



International application No. PCT/US03/38483

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(To be used when the space in any of the preceding boxes is not sufficient)	

V. 2. Citations and Explanations:

Claims 1-4, 6-13, 27, and 28 lack novelty under PCT Article 33(2) as being anticipated by Nohl (6,390,088).

With respect to claim 1, Nohl discloses a container (2) having the pharmaceutical formulation comprising at least one medicament present therein; and a mouthpiece (6) configured for oral engagement, the mouthpiece having an inner surface and an outer surface; wherein the outer surface of the mouthpiece contains at least one longitudinally-extending groove (7) disuniformity such that when the patient orally engages the mouthpiece (6) at least one void space is created between the outer surface of the mouthpiece and the oral cavity of the patient so as to provide an air flow channel through the at least one void space to facilitate intake of the at least one medicament by the patient (Figs. 2, 3).

With respect to claim 2, Nohl discloses wherein the at least one longitudinally-extending disuniformity is selected from the group consisting of at least one protrusion, at least one indentation, at least one opening in the outer surface of the mouthpiece (6, Figs. 1, 2).

With respect to claim 3, Nohl discloses wherein at least one longitudinally-extending disuniformity comprises a plurality of protrusions (Figs. 2, 3).

With respect to claim 6, Nohl discloses wherein the protrusions are present throughout the outer surface of the mouthpiece (Figs. 2, 3).

With respect to claim 7, Nohl discloses wherein at least one protrusion is present as one protrusion (Figs. 2, 3).

With respect to claim 8, Nohl discloses wherein the at least one longitudinally-extending disuniformity comprises a plurality of indentations (Figs. 2, 3).

With respect to claim 9, Nohl discloses wherein the plurality of indentations comprise two indentations present opposite to each other along sides of the mouthpiece (Figs. 2, 3).

With respect to claim 10, Nohl discloses wherein the longitudinally-extending disuniformity is present as at least one opening (Figs. 2. 3).

With respect to claim 11, Nohl discloses wherein the at least one opening comprises a plurality of openings (Figs. 2, 3).

With respect to claim 12, Nohl discloses wherein the plurality of openings comprises two openings each present to each other on opposing sides of the mouthpiece (Figs. 2, 3).

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/38483

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	With respect to claim 13, Nohl discloses wherein the pharmaceutical formulation comprises at least one medicament (Col. 1, lines 8-19).
	With respect to claim 27, note rejection of claims 1, 2, 8 and Col. 1, lines 8-19.
	With respect to claim 28, Nohl discloses activating the inhaler to deliver the at least one medicament to the patient (Col. 1, lines 8-19).
	Claim 5 lacks an inventive step under PCT Article 33(3) as being obvious over Nohl (6,390,088).
	With respect to claim 5, Nohl does not specifically show the plurality of protrusions present opposite to each other along respective side of the mouthpiece. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have protrusions located opposite to each other along respective sides of the mouthpiece, since it has been held that rearranging of parts of an invention involves only routine skill in the art.
	Claims 14-26 and 29-34 lack an inventive step under PCT Article 33(3) as being obvious over Nohl (6,390,088) in view of Rand (6,474,331).
	With respect to claims 14-26 and 29-34 and the specific medicament Nohl does not disclose the specifics. Rand in an inhaler teaches the limitations of the above claims, therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to arrive at the specific medicament as claimed based on the teachings of Rand because such medicaments are well known in the respiratory art (Col. 9, lines 40-67 and Col. 10, lines 1-20).
	NEW CITATIONS

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)